

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/002960

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01B21/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G01B G01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 177 038 A (HITACHI, LTD) 9 April 1986 (1986-04-09) A page 3, line 35 – page 9, line 29 figures 1-7	1-5,7, 11-13, 15,17
A	EP 0 661 518 A (RAUTARULUKKI OY; SPECTRA-PHYSICS VISIONTECH OY) 5 July 1995 (1995-07-05) column 1, line 1 - column 3, line 27; figures 1-5	6,8-10, 14,16, 18,19
X		1-5,7, 10-13,15
A		6,8,9, 14,16-19
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the International filing date but later than the priority date claimed

"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the International search	Date of mailing of the International search report
15 June 2005	21/06/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 51 651 epo nl Fax: (+31-70) 340-3016	Authorized officer Kunz, L

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/002960

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 018, no. 258 (M-1606), 17 May 1994 (1994-05-17) & JP 06 039683 A (O M LTD), 15 February 1994 (1994-02-15) abstract	3,12
A	PATENT ABSTRACTS OF JAPAN vol. 006, no. 240 (M-174), 27 November 1982 (1982-11-27) & JP 57 137135 A (SUMITOMO GOMU KOGYO KK), 24 August 1982 (1982-08-24) abstract	9,18
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 11, 30 September 1998 (1998-09-30) & JP 10 147417 A (KYOKUTO KAIHATSU KOGYO CO LTD; SHIMAZU MEKUTEMU KK), 2 June 1998 (1998-06-02) abstract	8,9,16, 18
A	DE 38 36 540 A1 (LEMMERZ-WERKE KGAA, 5330 KÖENIGSWINTER, DE) 3 May 1990 (1990-05-03) cited in the application column 5, line 53 - column 7, line 58; figures 1-16	1-19

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/002960

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0177038	A	09-04-1986	JP	61086606 A	02-05-1986
			EP	0177038 A1	09-04-1986
			US	4721388 A	26-01-1988
EP 0661518	A	05-07-1995	FI	94907 8	31-07-1995
			AT	194032 T	15-07-2000
			DE	69424989 D1	27-07-2000
			DE	69424989 T2	26-10-2000
			EP	0661518 A2	05-07-1995
			JP	8005320 A	12-01-1996
			US	5570185 A	29-10-1996
JP 06039683	A	15-02-1994	JP	2750967 B2	18-05-1998
JP 57137135	A	24-08-1982	NONE		
JP 10147417	A	02-06-1998	JP	3369420 B2	20-01-2003
DE 3836540	A1	03-05-1990	NONE		